UNINTERRUPTIBLE POWER SYSTEM

USER'S MANUAL

19” RACK MOUNT UPS

250/400/600/800/1000VA

1st Edition

Uninterruptible Power System

U19-2U-a1-01

CAUTION

- The UPS contains voltage that is potentially hazardous. All repairs should be performed by qualified service personnel.
- The UPS has its own internal energy source (battery). The output receptacles may be alive even when the UPS is not connected to an AC supply.
- The UPS is suitable for computers and electronic equipment with substantially rectifier or capacitive loads, not suitable for electronic equipment with significant inductive loads, such as motors & fluorescent lamps.
- Be sure to operate within the power rating of the UPS. Below 1/2 or 1/3 of rated power is recommended for longer backup time & longer battery life.
- Do not place the UPS near excessive humidity, under sunshine, or close to heat-emitting sources.
- If the UPS is out of order, please detach power cord and consult your dealer right away. Do not remove cover if there is no serviceable part inside.
- The unit should be supplied by grounded source. Do not operate the unit without ground source.
- The socket-outlet should be installed near the equipment and be easily accessible.
- Do not plug the UPS power cord into itself. That will result in a safety hazard.
- Installation should be performed by a qualified technician or electrician in accordance with local electrical codes.

INTRODUCTION

The UPS provides continuous power source to protect your sensitive electronic equipment, computers against blackouts, brownouts, spikes, sags, and surges. AVR is built in to boost up input voltage without draining battery energy.

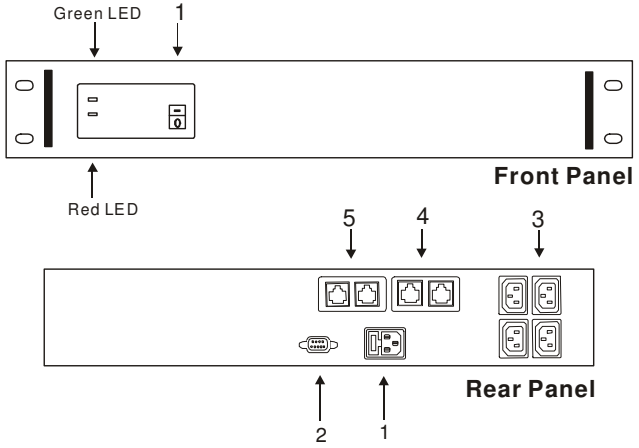
Front Panel

1. Master power switch.
   LED indication:

- Green LED: Steady: AC normal
- Green LED: Blinking: Battery in backup
- Red LED :Steady: Battery low/Over load

Rear Panel

1. AC line input, with AC fuse. A certified detachable power cord is to be used with the UPS.
2. Computer interface.
3. Output receptacles.
4. RJ-45 surge protection.
5. RJ-11 surge protection.



INSTALLATION AND OPERATION

Upon receipt of the UPS, inspect the shipping carton for damage. If there is any obvious damage, immediately report it to the selling dealer or the delivering carrier. If there is no damage to the shipping carton, unpack the unit and inspect the unit for damage.

The UPS is designed for installation in a protected environment within a temperature range from 32°F to 104°F and relative humidity of 0~90% without condensation. Do not block inlets and outlets. Install the system in a location free from excessive dust and chemical fumes.

Check the identification label to verify the UPS voltage and power rating match the available line voltage and load requirements.

Installation:

1. The unit can not be started up without AC power supplied.
2. Connect the power cord to a verified grounded 3-wire receptacle.
3. Charge the batteries for ten (10) hours before use. You may use the UPS immediately without recharging, but the backup time maybe less than the rating.
4. After connecting your computer to the output receptacles of the UPS, turn on the power switch of UPS firstly, then the green LED will light up which indicates AC utility voltage is present..
5. To test backup function, you may disconnect the power cord of the UPS from wall outlet. The green LED will start blinking and alarm will beep every 3 seconds.
6. When battery approaches low level, alarm will beep every second until auto shut down.
7. The 4 conditions UPS will automatically shut down:
   a. Battery low
   b. Short circuit
   c. Overload
   d. UPS fault

COMPUTER INTERFACE

Pin out information:
Pin 2: Power failure. The relay will close when input power fails.
Pin 4: Common Ground for pin 2 and pin 5.
Pin 5: Battery Low. The relay will close when the battery inside the UPS has less than about 1.5minutes of backup time left.
Pin 6: Shut Down UPS. User may send a high level signal (+5V~+12V) for over 1ms to turn off the UPS. It can only activate when input power fails.
Pin 7: Common Ground for pin 6.

TROUBLE SHOOTING

If the UPS failed to operate properly, please review the following checks firstly. If the problem remain, please consult sales agent for service.

- Is the Master power switched on?
- Is the UPS plugged into a correctly working outlet?
- Is the line voltage within the rating specified?
- Is the fuse on the rear panel blown?
- Is the UPS over loaded?
- Is battery not fully charged? Dead battery? Charger failure?

Please provide the following information when call for service.
1. Model number, serial number.
2. Date of the problem occurred, date of purchase.
3. Full description of the problem, including load, LED, and alarm status, installation condition, working environment, etc.

BATTERY FACTS

The battery is the only periodically serviceable parts in the UPS. An expected life is approx. 3~5 years. However, frequent long discharges or ambient temperatures above 80°F will shorten battery life. Therefore, it is recommended to replace the batteries every 3 years after initiating the unit.

Recharge batteries every 3 months is necessary if it is not in use. Because it will cause batteries over-drain.

WARNING

Only a qualified technician should replace the battery. Batteries have high short-circuit current capacity; mistakes in connecting or disconnecting can cause connections to arc or weld and could cause severe burns.

STORAGE

The UPS should only be stored if the battery is fully charged. Avoid storage temperatures above 80°F as battery life is significantly shortened. Every 90 days remove the unit from storage and plug it in for 24 hours to recharge the batteries. Batteries may be damaged if left in storage and not recharge every 90 days.

IMPORTANT NOTIC

Please use same type and same rating of batteries for replacement. Do not replace it with the battery that exceeds specified ration.